PATENT ABSTRACTS OF JAPAN

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(21)Application number : 08-281776   (71)Applicant : SONY CORP
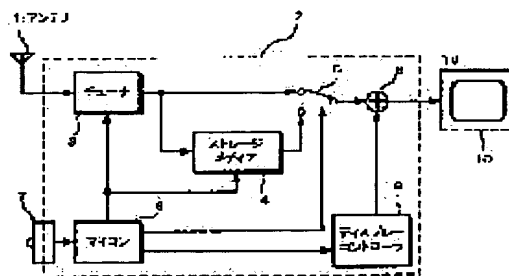
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(54) VIDEO RECORDING RESERVING DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To easily perform a video recording operation by displaying the history of video recording information or information of video recording reservations on a television monitor at the time reserving a video recording.

SOLUTION: A television electric wave from an antenna 1 is converted into a picture signal through a video recording reserving device 2 to be supplied to a television monitor 10. Television electric waves are supplied to the tuner 3 of the video recording reserving device 2 and the television electric wave selected from among plural television electric waves and amplified is supplied to a storage media 4 and a switch 5. A microcomputer 8 controls the tuner 3, the storage media 4, the switch 5 and a display controller 9 according to the command supplied via a remote control light receiving part 7 and outputs a signal for displaying a video recording reservation calendar or the like on the television monitor 10. In an adder 6, the signal and the picture signal are superposed and the superposed signals are supplied to the television monitor 10.

LEGAL STATUS

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Fig. 5 shows a flowchart showing one example of a process in case where the remaining amount of recordable time of a media used in the storage media 4 becomes insufficient. The control of this flowchart is started from step S1 where the calculation of the remaining amount of the recordable time is executed. At step S2, the calculation of the total time for the programs that are currently subject to a video recording reservation is executed. At step S3, it is determined whether the recording of the programs that are subject to a video recording reservation is possible or not from the remaining amount of the recordable time obtained at the step S1 and the total time of the video recording reservation obtained at the step S2. If it is determined that the recording is possible, the control is transferred from the step S3 to step S4, and a normal recording is executed at step S4.

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When it is determined that the recording is impossible at step S3, an alarm is given, and then, the control is transferred from step S3 to step S5. At step S5, an erasable area is searched, and the searched erasable area is added as the remaining amount of the recordable time. At this step S5, the erasable area includes, for example, an area in which the recorded and

reproduced program is recorded, i.e., in which the program that

has already been viewed is recorded. At step S6, it is determined

whether the recording of the recording-reserved program is

possible in the remaining amount of the recordable time. In

case where it is determined that sufficient recording time is

secured and the recording is possible, the control is transferred

from step S6 to step S4, and at step S4, a normal recording is

executed. Further, in case where it is determined at step S6

that the recording is impossible even if the erasable area is

erased, the control is transferred from step S6 to step S7.

Fig. 5

①   Start

②   Calculating remaining amount of recordable time

③   Calculating total time of recording reservation

④   Is recording possible?

⑤   Normal recording

⑥   End

⑦   Searching erasable area

⑧   Calculating frame-dropping number

⑨   Frame-dropping recording